



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/381,334	11/18/1999	KARI VIRTANEN	846A.0017.U1 (US)	3837
29683	7590	11/23/2010		
HARRINGTON & SMITH 4 RESEARCH DRIVE, Suite 202 SHELTON, CT 06484-6212			EXAMINER	
			IQBAL, KHAWAR	
			ART UNIT	PAPER NUMBER
			2617	
			MAIL DATE	DELIVERY MODE
			11/23/2010 PAPER	

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

## Application No.

09/381,334

## Applicant(s)

VIRTANEN, KARI

## Examiner

KHAWAR IQBAL

## Art Unit

2617

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 05 August 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-3,6-9,11,13 and 15-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3,6-9,11,13 and 15-21 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/C)
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date: \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_
- Paper No(s)/Mail Date: \_\_\_\_\_

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-3, 6-9, 11, 13 and 15-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Josse et al (6104929).

Regarding claim 1 Josse et al discloses a method of registering a multimode mobile station (MS 40, fig. 1) in a telecommunications system, wherein the telecommunications system comprises a home location register (HLR 26, fig. 1) for maintaining mobile subscriber data and supports a first network (GSM [circuit switching], fig. 1) and a second network (GPRS [packet switching], fig. 1), the method comprising (fig. 1-4):

In the home location register (HLR 26, fig. 1), maintaining the mobile subscriber (40, fig. 2) data, and receiving from another network element, a message for requesting the mobile subscriber data, the mobile subscriber data comprising address information for accessing the mobile subscriber via the first (GSM [circuit switching], fig. 1) and the second network (GPRS [packet switching], fig. 1) of the different type (the home

location register stores a IMSI, GPRS or IMSI/GPRS for mobile subscriber in corresponding subscription records, see table 1-3, col. 5, lines 19-56);

the home location register (HLR 26, fig. 1) maintaining a subscriber-specific access parameter (see table 1-3) which indicates, independently of the address information (IMSI and GPRS attach indicates independently of the address information, also see table 1-3) and , whether the mobile subscriber has access rights to the first network (GSM [circuit switching], fig. 1) and/or the second network (GPRS [packet switching], fig. 1) of the different type (col. 5, lines 20-30, col. 6, lines 49-61);

wherein the first network (GSM [circuit switching], fig. 1) and second network (GPRS [packet switching], fig. 1) are provided by a common operator (col. 6, lines 25-45); and

in response to said message for requesting the mobile subscriber data, the home location register (HLR 26, fig. 1) sends the mobile subscriber data and also said subscriber-specific access parameter (col. 8, lines 61-65, col. 9, lines 11-20, col. 10, lines 40-65, col. 13, lines 6-35);

wherein the network element that requested the mobile subscriber data is operable to use said subscriber-specific access parameter for restricting the location updating of the mobile station only to the first network or to the second network of the different type (col. 9, lines 11-20, col. 13, lines 6-35).

Regarding claims 2, 18 Josse et al discloses a method of registering a multimode mobile station in a telecommunications system, wherein the telecommunications system comprises a home location register for maintaining mobile subscriber data and supports

a first network and a second network the first network and second network are of different type, wherein the first network and second network are provided by a common operator, mobile subscriber data comprising address information for accessing the mobile subscriber via the first and the second network, and a subscriber-specific access parameter indicating, whether the mobile subscriber has access rights to the first network and/or the second network, the method comprising (fig. 1-4, see table 1-3, col. 5, lines 19-56, see detail in claim 1):

sending from another network element to the home location register a message for requesting the mobile subscriber data, the mobile subscriber data comprising said subscriber-specific access parameter indicating, independently of the address information, whether the mobile subscriber has access rights to use the first network and/or the second network of the different type (col. 6, lines 15-61, col. 8, lines 61-65, col. 9, lines 11-20, col. 10, lines 40-65, col. 13, lines 6-35, table 1-3);

the network element that requested the mobile subscriber data using said subscriber-specific access parameter to restrict the access of the mobile subscriber only to the first and/or the second network of the different type (col. 9, lines 11-20, col. 13, lines 6-35, see claim 1 for detail).

Regarding claims 8, 19 Josse et al discloses a home location register configured to operate in a telecommunications system that supports multimode mobile stations and which comprises a first network and a second network of a different type, the first and second networks being provided by a common operator, the home location register comprising (fig. 1-4, see table 1-3, col. 5, lines 19-56, see detail in claim 1):

a processor (inherent); and a memory operatively connected to the processor and configured to store mobile subscriber data for registering a multimode mobile station, the mobile subscriber data comprising address information for accessing the mobile station via the first and the second network (col. 5, lines 20-30, col. 6, lines 49-61); and

a subscriber-specific access parameter which indicates, independently of the address information, whether a mobile subscriber to whom the mobile station has been registered has access rights to the first network and/or the second network of the different type (col. 5, lines 20-30, col. 6, lines 49-61, table 1-3, see detail in claim 1);

wherein the processor is configured to receive, from another network element, a location update message for the mobile station and to send the mobile subscriber data and said subscriber-specific access parameter as a response to said location update message (col. 9, lines 11-20, col. 13, lines 6-35).

Regarding claims 15, 20 Josse et al discloses a network element for a telecommunications system, which telecommunications system comprises a home location register for maintaining mobile subscriber data for registering a multimode mobile station in the telecommunications system which supports a first network, a second network, and multimode mobile stations, the mobile subscriber data comprising address information for accessing the mobile subscriber via the first and the second network and a subscriber-specific access parameter indicating, whether the mobile subscriber has access right to the first network and/or the second network of the

different type network element comprising (fig. 1-4, see table 1-3, col. 5, lines 19-56, see detail in claim 1):

a processor configured to: send, to the home location register, a message for location updating of the mobile subscriber station; receive the mobile subscriber data and said subscriber-specific access parameter as a response to said message (col. 9, lines 11-20, col. 13, lines 6-35);

use said subscriber-specific access parameter to restrict location updating of the mobile station only to the first and/or the second network; wherein the first network and second network are provided by a common operator (col. 8, lines 61-65, col. 9, lines 11-20, col. 10, lines 40-65, col. 13, lines 6-35, see detail in claim 1).

Regarding claim 3 Josse et al discloses the mobile subscriber's access can be restricted only to one network even though a short message service had been defined for the mobile subscriber (col. 9, lines 10-40, col. 14, lines 1-14, see table 1-3).

Regarding claim 6 Josse et al discloses when the mobile station is in the area of the visitor location register and receives a call or a short message and the visitor location register does not have data of the mobile subscriber, said subscriber-specific access parameter is used for restricting paging of the mobile station only to a network which the mobile subscriber has access rights to (col. 9, lines 10-40, col. 14, lines 1-14, see table 1-3, also see claim 1).

Regarding claims 7, 11, 13, 17 and 21 Josse et al discloses first network is a circuit-switch and second is packet-switched (GSM and GPRS, and MS 40 communication with both network, fig. 1, also see claim 1).

Regarding claims 9, 16 Josse et al discloses wherein the data structure is located in a home location register of the telecommunications system (para. # 0010-0012, 0030-0032 and 0050, fig. 2).

### ***Response to Arguments***

3. Applicant's arguments with respect to claims 1-3, 6-9, 11, 13, 15-21 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAWAR IQBAL whose telephone number is (571)272-7909. The examiner can normally be reached on 9 am to 6.30 pm Monday to Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, GEORGE ENG can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.



Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George Eng/  
Supervisory Patent Examiner, Art Unit 2617

/K. I./  
Examiner, Art Unit 2617